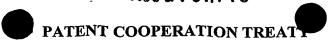
23 DEC 2004





PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference ONF-4571PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No. PCT/JP2003/008039	International filing date (day/montal) 25 June 2003 (25.06.200	• •				
International Patent Classification (IPC) or national classification and IPC A61K 45/00, 31/437, 31/445, A61P 9/00, 9/06, 9/10, 9/12, 9/14, 13/12, 25/06, 43/00, C07D 471/04						
Applicant ONO PHARMACEUTICAL CO., LTD.						
	ninary examination report, establish smitted to the applicant according to	ed by this International Preliminary Examining Article 36.				
	2. This REPORT consists of a total of 5 heets, including this cover sheet.					
3. This report is also accompanied by A	• •					
a. (sent to the applicant and	to the International Bureau) a total	of sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which sup beyond the disclo Supplemental Bo	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications rela	ting to the following items:					
Box No. I Basis of the re	port					
Box No. II Priority						
Box No. III Non-establish	ment of opinion with regard to nove	lty, inventive step and industrial applicability				
Box No. IV Lack of unity						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
citations and explanations supporting such statement Box No. VI Certain documents cited						
	ts in the international application					
Box No. VIII Certain observations on the international application						
Date of submission of the demand Date of completion of this report						
06 January 2004 (06.0)		26 September 2004 (26.09.2004)				
	Authorized					
Name and mailing address of the IPEA/JP		1 Officed				
Faccimile No.		Telephone No.				

Translation



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/008039

Box No.	I B	asis of the report					
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 							
	This reward	eport is based on translations from the original language into the following language, is language of a translation furnished for the purpose of:					
	i	nternational search (under Rules 12.3 and 23.1(b))					
	П	oublication of the international application (under Rule 12.4)					
	i	nternational preliminary examination (under Rules 55.2 and/or 55.3)					
furnisi	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
		ternational application as originally filed/furnished					
	the des	ecription:					
	pages	, as originally filed/furnished					
	pages* pages*	<u> </u>					
	-						
	the cla						
	pages	, as originally filed/furnished , as amended (together with any statement) under Article 19					
	pages*						
	pages*						
		wings: , as originally filed/furnished					
	pages*						
ļ	pages*						
l —							
	a sequ	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.	The ar	nendments have resulted in the cancellation of:					
		the description, pages					
İ	Ħ.	the claims, Nos.					
	\sqcap	the drawings, sheets/figs					
	=	the sequence listing (specify):					
Ì	=	any table(s) related to sequence listing (specify):					
	L						
4.	made, (Rule	eport has been established as if (some of) the amendments annexed to this report and listed below had not been since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box 70.2(c)).					
	\equiv	the description, pages					
	Ц	the claims, Nos.					
	===	the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
* If ite	m 4 app	olies, some or all of those sheets may be marked "superseded."					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY



Box No. III	Non-establishment of opinion wi	th regard to novelty, inventive step and industrial applicability		
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
ti	he entire international application.			
\boxtimes	claims Nos10-70			
	the said international application, or the said international application or the following subject matter	which does not require an international preliminary examination (specify):		
The subject matters of claims 61-65 relate to a method for treatment of the human body by therapy, which does not require the preliminary international examination by the Preliminary International Examining Authority in accordance with PCT Article 34(4)(a)(i) and Rule 67.1(iv).				
.				
	the description, claims or drawings (i are so unclear that no meaningful opinion)	ndicate particular elements below) or said claims Nosnion could be formed (specify):		
	the claims, or said claims Nosby the description that no meaningfu	are so inadequately supported		
	-	en established for said claims Nos		
		quence listing does not comply with the standard provided for in Annex C of the		
	Administrative Instructions in that:	has not been furnished		
1	the written form	does not comply with the standard		
	the computer readable form	has not been furnished		
		does not comply with the standard		
	the tables related to the nucleotide a the technical requirements provided	nd/or amino acid sequence listing, if in computer readable form only, do not comply with for in Annex C-bis of the Administrative Instructions.		
	see Supplemental Box for further de	etails.		



Internal application No.

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Box No.	IV	Lack of unity of invention		
1.	In	response to the invitation to restrict or pay additional fees the applicant has:		
		restricted the claims.		
		paid additional fees.		
		paid additional fees under protest.		
	\boxtimes	neither restricted nor paid additional fees.		
2.	This not t	Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, o invite the applicant to restrict or pay additional fees.		
3. This	Autho	ority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is		
	com	plied with.		
\boxtimes		complied with for the following reasons:		
EDG-5	regi	echnical feature of the subject matter of claim 1 is "A remedy and/or preventive comprising an alator for the diseases caused by vasoconstriction or vasodilation," and the subject matters of claims laim 1.		
(I) A-X 66-70 (K-Y-Z As de do ne	Echnical feature of the subject matter of claim 10 is "A compound represented by general formula Z-B," and the subject matters of claims 11-60 and 66-70 substantially quote claim 10. escribed above, since the subject matters of claims 1-9 and the subject matters of claims 10-60 and of the part of the common technical feature, it is not considered that they are so linked as to form a single entive concept.		
		•		
}				
4. Consequently, this report has been established in respect of the following parts of the international application:				
1		all parts.		
	\boxtimes	the parts relating to claims Nos		



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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims	6, 7	YES	
	Claims	1-5, 8, 9	NO	
Inventive step (IS)	Claims		YES	
	Claims	1-9	NO NO	
Industrial applicability (IA)	Claims		YES	
	Claims	1-9	NO	

2. Citations and explanations (Rule 70.7)

Claims 1-5, 8 and 9

Document 1: JP, 2001-261575, & WO, 01-69252, A1

Document 1 cited in the ISR describes that an EDG-5 receptor agonist and an EDG-receptor inhibitor are used to regulate vasoconstriction (see claims 5, 29, etc.).

Therefore, the subject matters of claims 1-5, 8 and 9 do not appear to be novel or to involve an inventive step.

Claims 6 and 7

Document 2: WO, 01-98301, A1

Document 2 cited in the ISR describes that the compounds corresponding to general formulae (I) and (II) have EDG-5 antagonist activity. A person skilled in the art could have easily used the compounds described in document 2 as EDG receptor inhibitors in the invention described in document 1.

Therefore, the subject matters of claims 6 and 7 do not appear to involve an inventive step.



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Box No. VI Certain documents cited 1. Certain published documents (Rule 70.10) Priority date (valid claim) Filing date Publication date Application No. (day/month/year) (day/month/year) (day/month/year) Patent No. 14.12.2001 13.12.2002 26.06.2003 W0 03/051976 A1 [E, X] 2. Non-written disclosures (Rule 70.9) Date of written disclosure referring to non-written disclosure Date of non-written disclosure Kind of non-written disclosure (day/month/year) (day/month/year)





Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The subject matters of claims 1-5, 8 and 9 relate to a remedy and/or preventive containing a compound defined by a desired nature called "EDG-5 regulator" as an active ingredient, for the diseases caused by vasoconstriction or vasodilation, and claims 1-5, 8 and 9 include all the compounds with such a nature. However, the compounds disclosed in the sense of PCT Article 5 are only a very small portion of the claimed compounds, and the claimed compounds are not supported by the disclosure of the specification in the sense of PCT Article 6.

Furthermore, since the "EDG-5 regulator" does not allow the scope of the compounds with such a nature to be identified even if the common general technical knowledge prevailing on the filing date of the present application is considered, the subject matters of claims 1-5, 8 and 9 do not satisfy the requirement of clarity in PCT Article 6.

The subject matters of claims 6 and 7 relate to "a remedy and/or preventive containing a compound defined by a desired nature called "EDG-5 regulator" as an active ingredient for the diseases caused by vasoconstriction or vasodilation. General formulae (I) and (II) include very numerous compounds. However, the compounds disclosed in the sense of PCT Article 5 are only a very small portion of the claimed compounds, and the claimed compounds are not sufficiently supported in the sense of PCT Article 6.